

V&V Reference Report

L2 ASCDS Version : 10.6.4.1

Observation 20319 - L2 Version 1
Chandra X-Ray Center

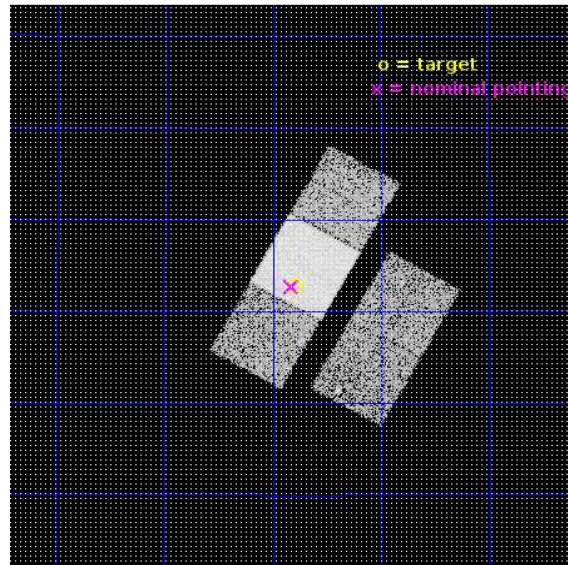
L2 Processing Date : Oct 12 2018

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1 Front

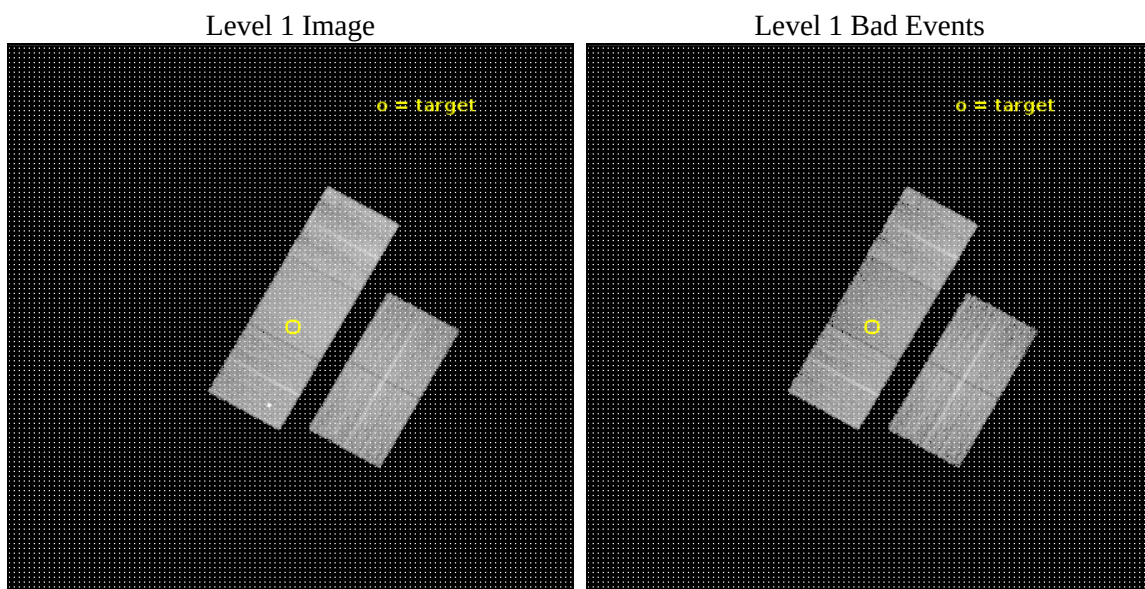
seq_num	503013	Sequence number
obs_id	20319	Observation id
title	Unraveling the physics of engine-driven SNe with ZTF+Chandra	Propo
observer	Alessandra Corsi	Principal investigator
object	AT2018gep	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	250.950926	Observer's specified target RA [deg]
dec_targ	41.04538	Observer's specified target Dec [deg]
ra_nom	250.95687968374	Nominal RA [deg]
dec_nom	41.044994605022	Nominal Dec [deg]
roll_nom	299.2729129376	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10051.895156384	Sum of GTIs [s]
livetime	9920.5597460678	Livetime [s]
ontime2	10051.73099637	Sum of GTIs [s]
ontime3	10051.813076377	Sum of GTIs [s]
ontime6	10048.713106155	Sum of GTIs [s]
ontime7	10051.895156384	Sum of GTIs [s]
ontime8	10051.772036433	Sum of GTIs [s]
l2events	71520	Number of level 2 events



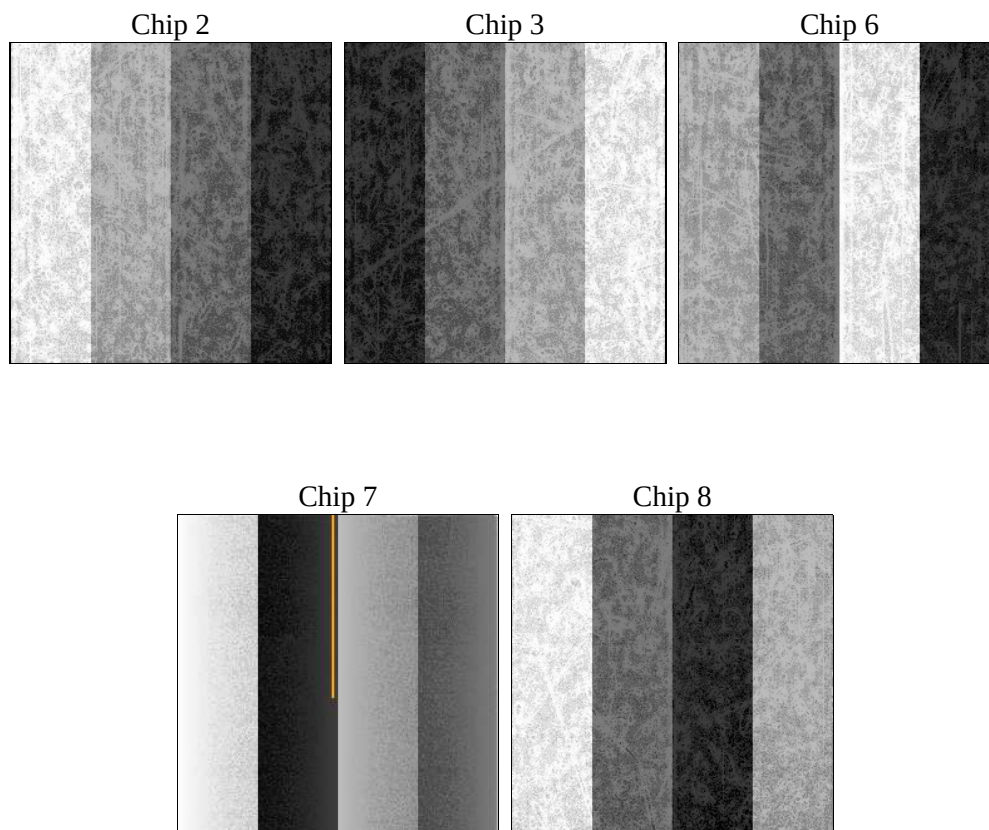
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.6.4.1	Processing system revision	ontime	10051.895156384	Sum of GTIs [s]
caldsver	4.8.0	 	ontime2	10051.73099637	Sum of GTIs [s]
date	2018-10-12T23:29:59	Date and time of file creation	ontime3	10051.813076377	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	10048.713106155	Sum of GTIs [s]
			ontime7	10051.895156384	Sum of GTIs [s]
			ontime8	10051.772036433	Sum of GTIs [s]
			l1events	433422	Number of level 1 events

2.1.4 Events

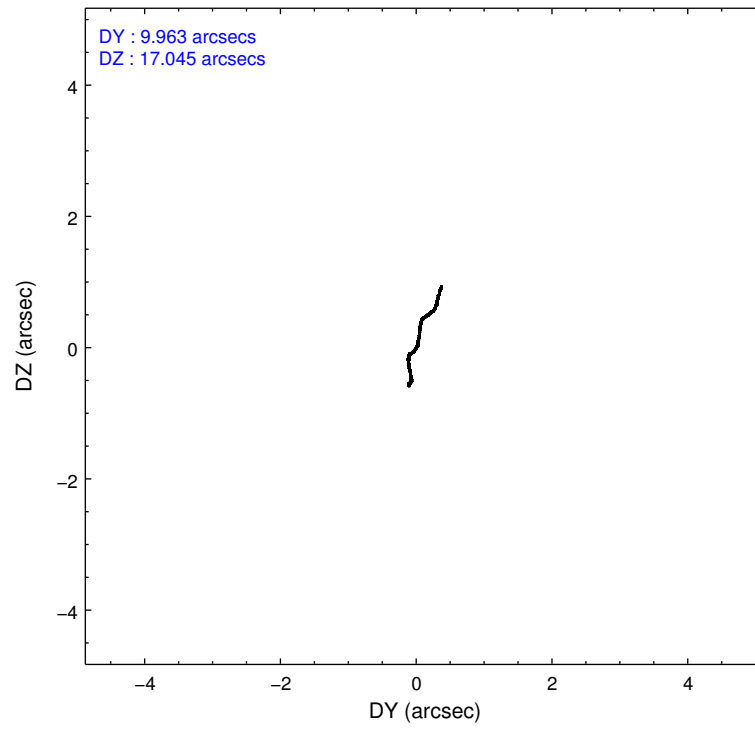
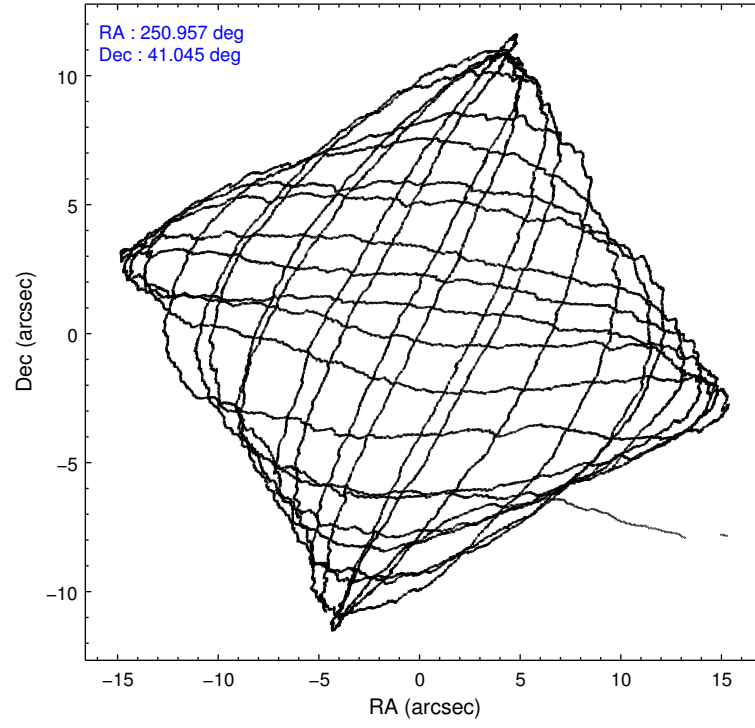
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	77190	71547	82906	97988	103791
rejected events	69198	63916	71142	55522	76505
rejected %	89%	89%	85%	56%	73%

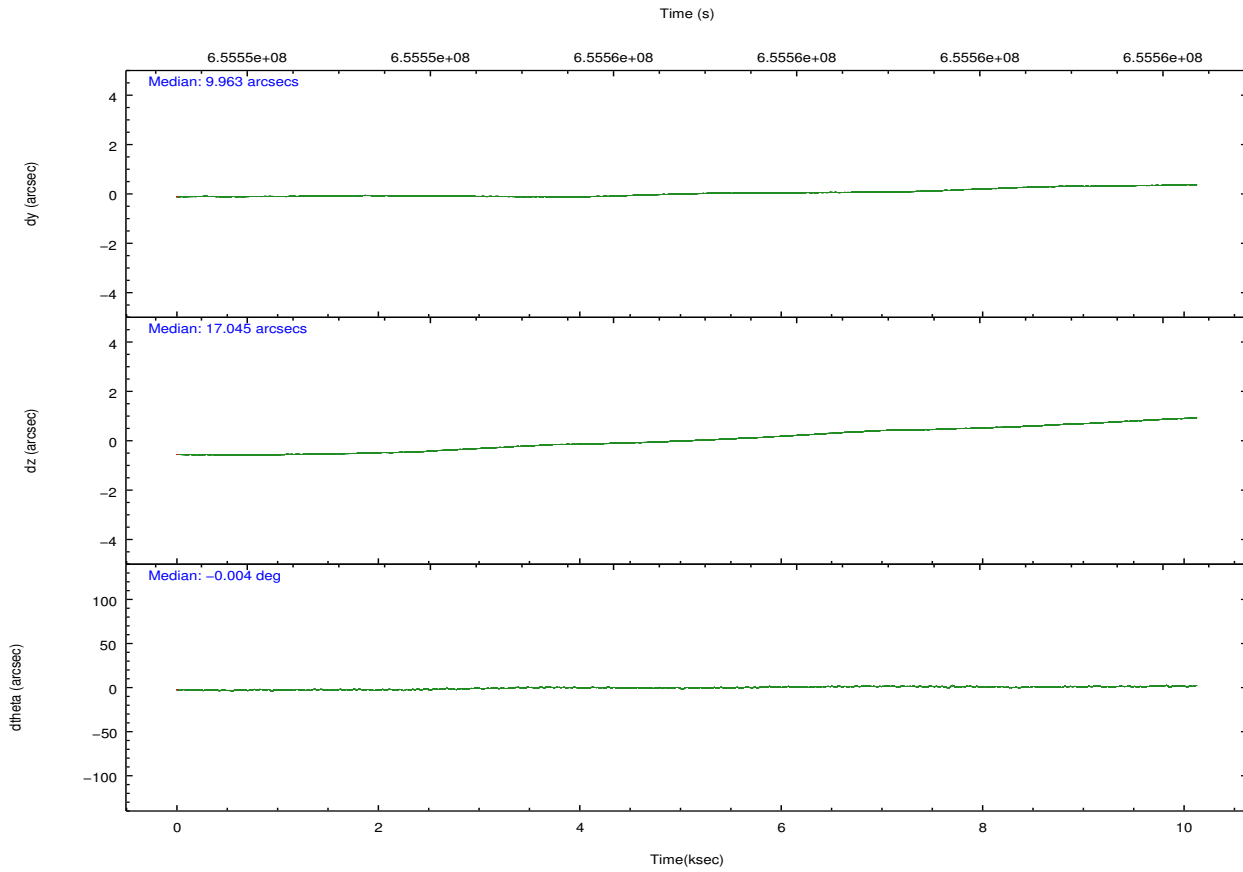
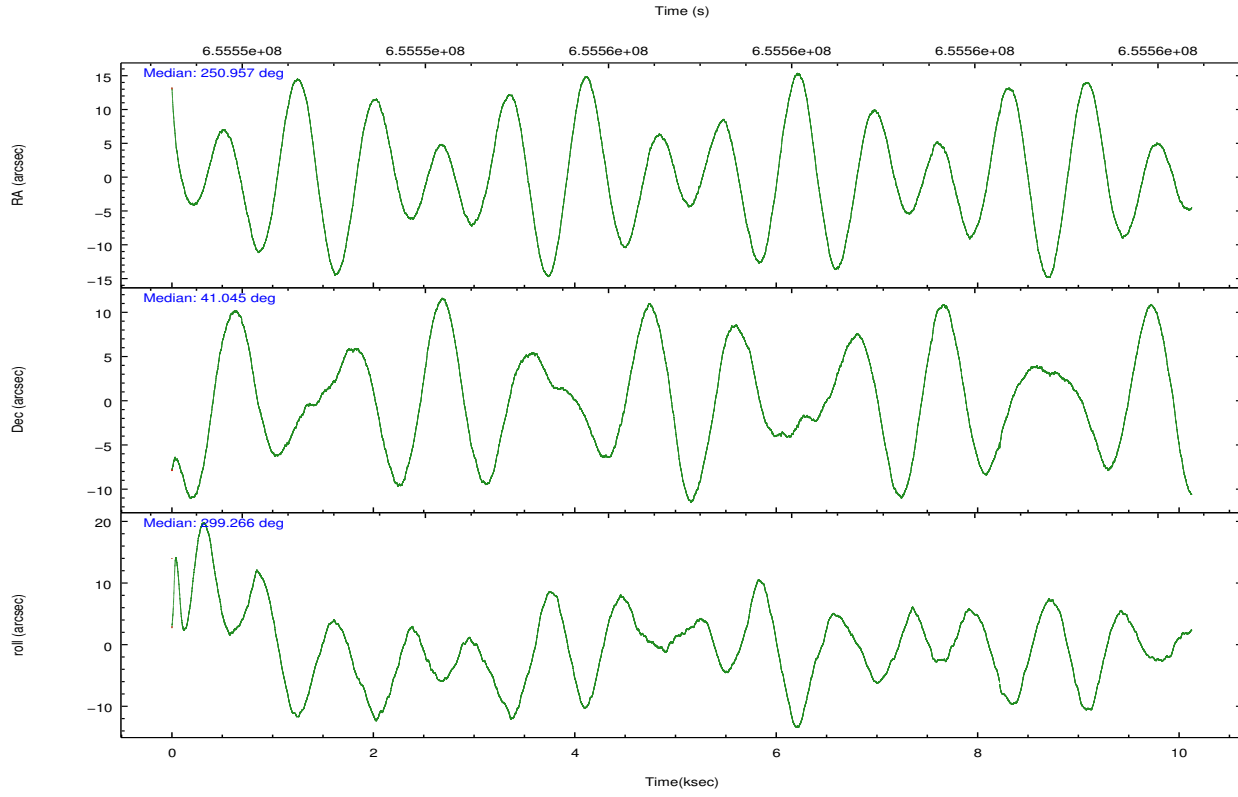
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	2889	2685	5876	3648	7552
	3%	3%	7%	3%	7%
grade 1 events	40	51	69	146	83
	0%	0%	0%	0%	0%
grade 2 events	1931	1641	2147	9147	6548
	2%	2%	2%	9%	6%
grade 3 events	788	816	813	3269	2837
	1%	1%	0%	3%	2%
grade 4 events	837	872	838	3250	2672
	1%	1%	1%	3%	2%
grade 5 events	3102	3594	3637	9732	5479
	4%	5%	4%	9%	5%
grade 6 events	1554	1623	2105	23180	7707
	2%	2%	2%	23%	7%
grade 7 events	66049	60265	67421	45616	70913
	85%	84%	81%	46%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	250.925361	250.9568796837416	CCD I2 on	O1	Y
[deg] Pointing Dec	41.058737	41.0449946050217	CCD I3 on	Y	Y
[deg] Pointing Roll	299.136979	299.2729129376011	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	655551875.184000	655550718.94468	CCD S5 on	N	N
Observation start date	2018-10-10T09:43:26	2018-10-10T09:25:18	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	655561875.184000	655562881.59541	On-chip summing requested	N	N
Observation end date	2018-10-10T12:30:06	2018-10-10T12:48:01	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



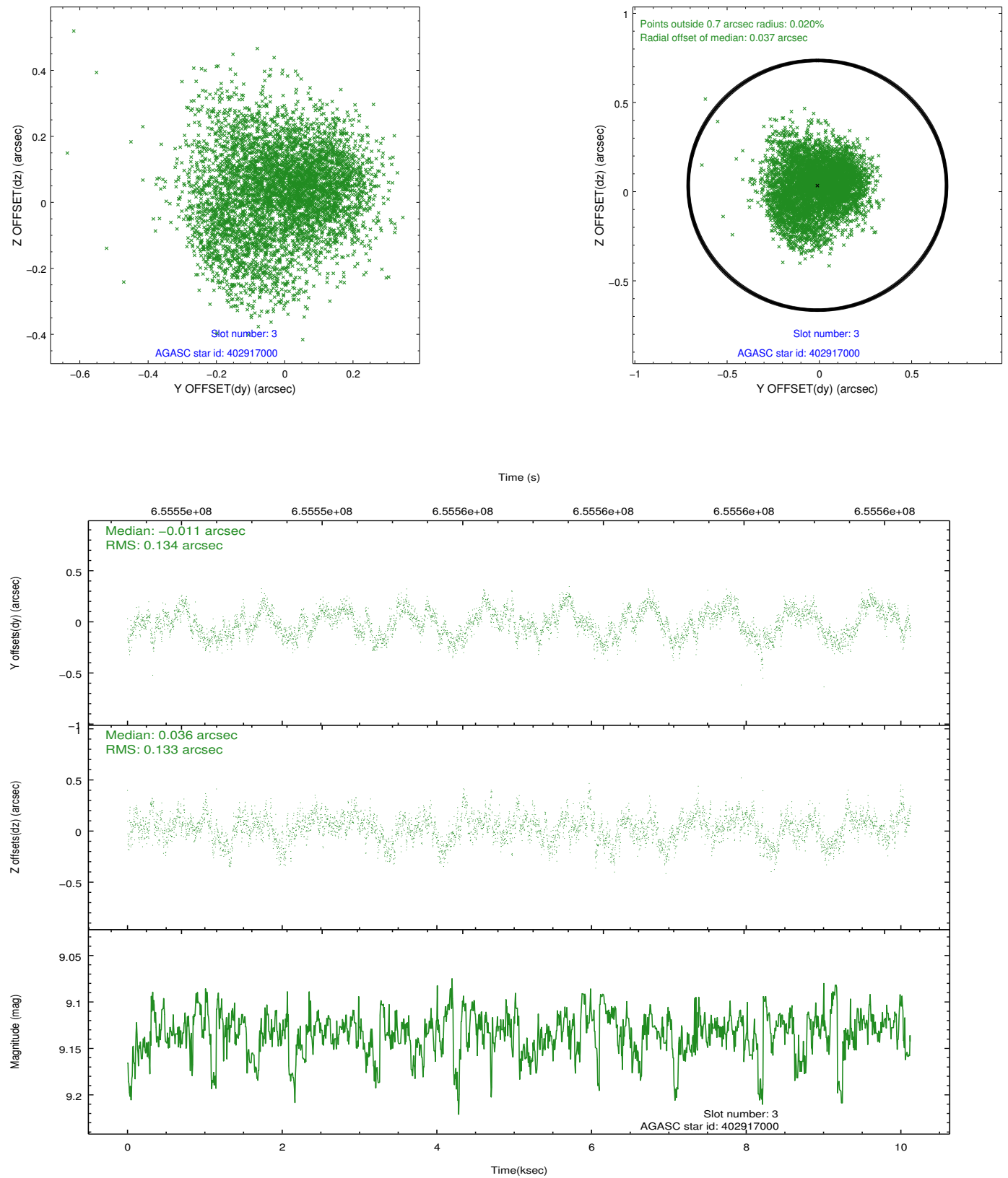


Slot Statistics

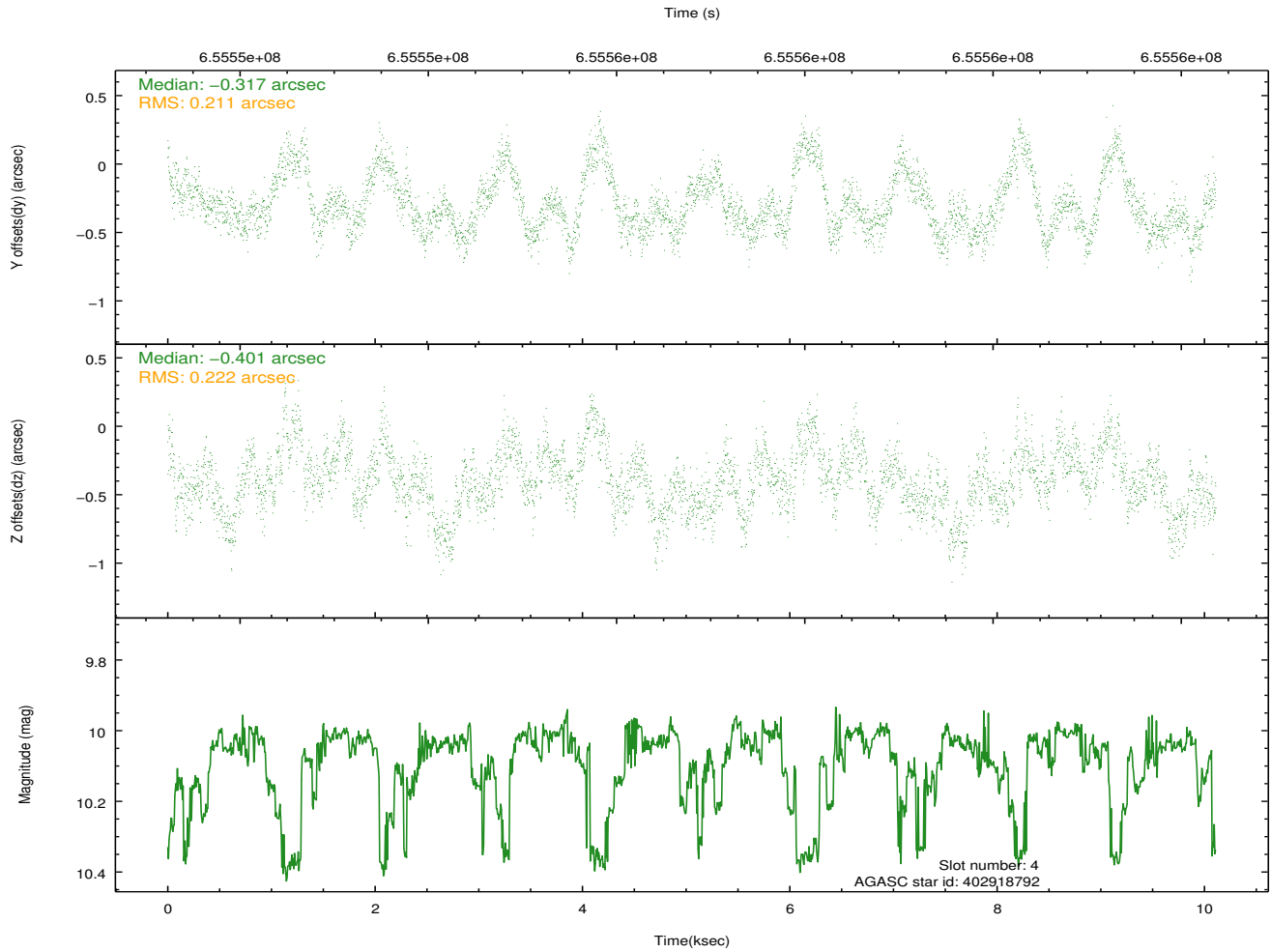
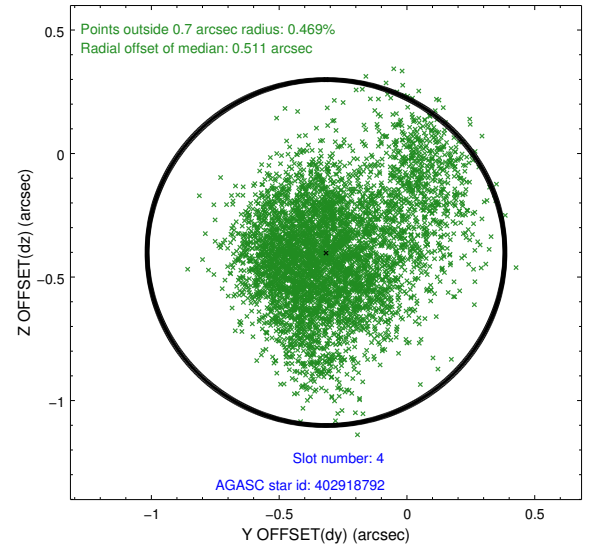
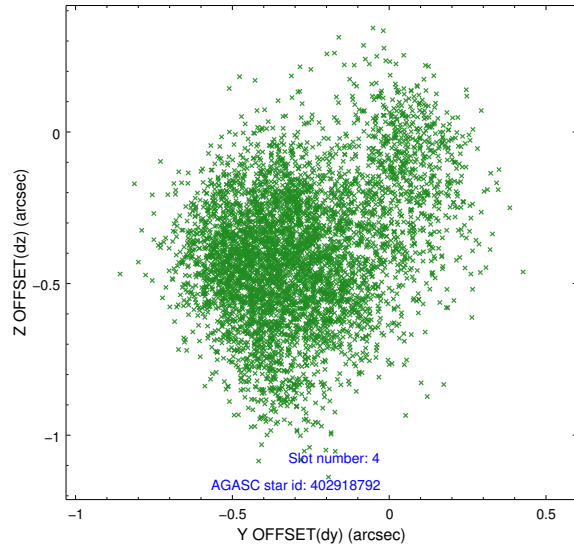
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	6.99	2470	1.000	-0.133	-0.055	0.019	0.028	0.000000	0.000000	-762.98	-1738
1	FID		ACIS-S-4	7.11	2469	1.000	0.364	0.079	0.007	0.013	0.000000	0.000000	2150.57	169
2	FID		ACIS-S-5	7.10	2470	1.000	-0.261	-0.016	0.017	0.024	0.000000	0.000000	-1815.27	163
3	GUIDE	used	402917000	9.13	4936	1.000	-0.011	0.036	0.206	0.315	251.000675	40.762596	1030.54	-338
4	GUIDE	used	402918792	10.07	4905	1.000	-0.317	-0.401	0.312	0.563	251.670413	41.144114	707.45	1918
5	GUIDE	used	402924088	9.40	4870	1.000	0.288	0.267	0.282	0.463	250.303262	41.157016	-1135.23	-1297
6	GUIDE	used	403440592	8.89	4933	1.000	0.045	0.151	0.180	0.278	251.018721	41.677629	-1822.05	1304
7	GUIDE	used	403440824	8.57	4935	1.000	-0.004	-0.071	0.171	0.242	251.315347	41.374636	-482.50	1475

2.4 Star Slots

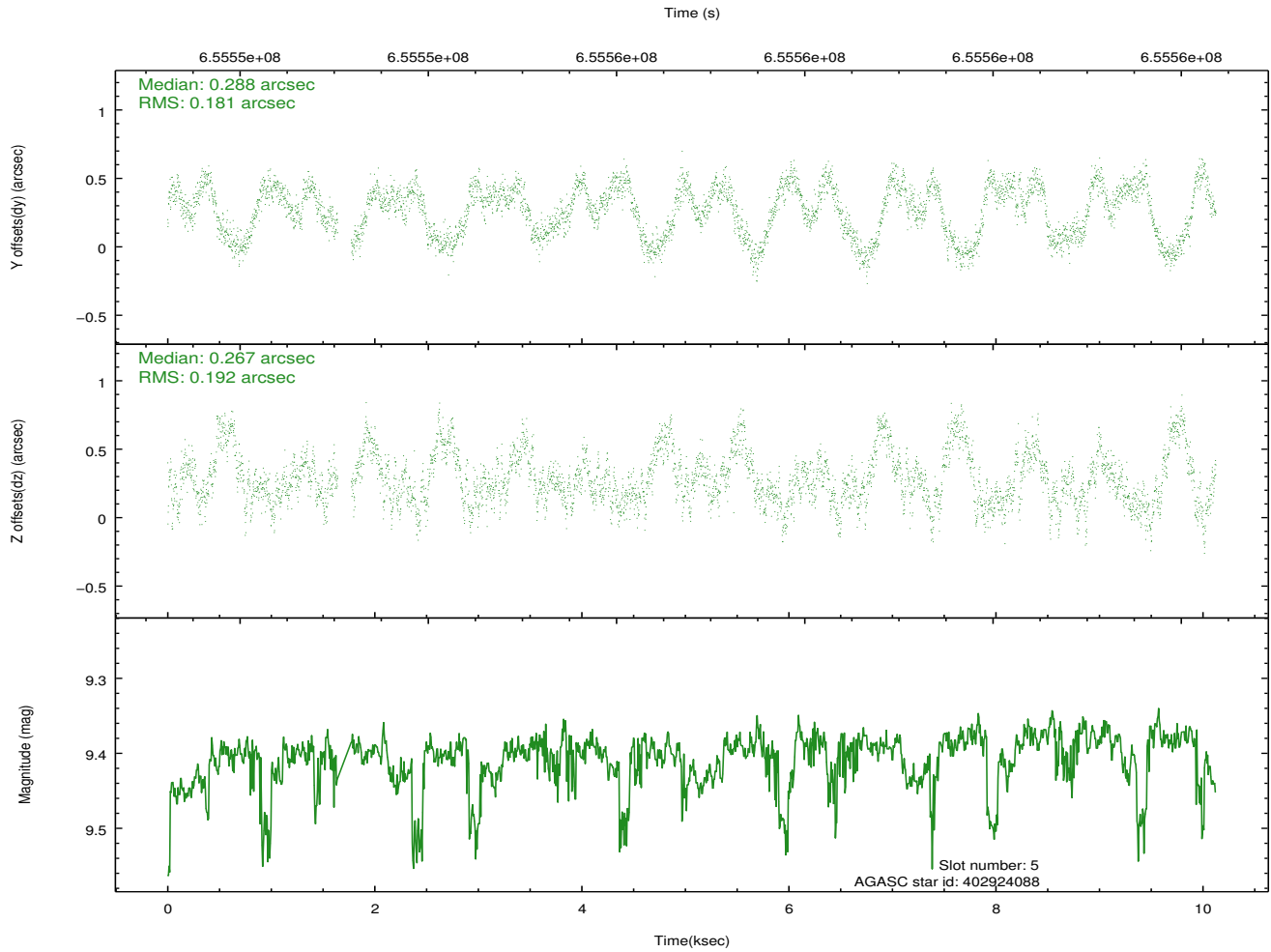
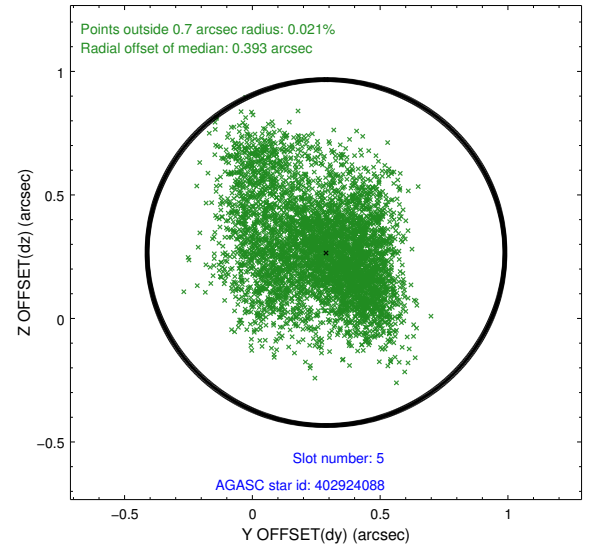
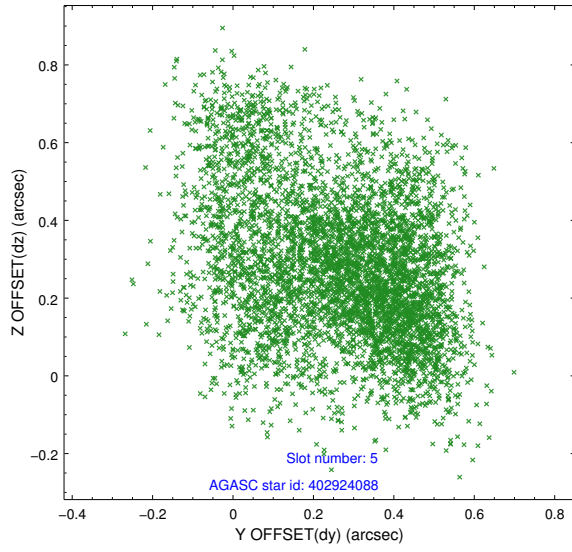
2.4.1 Slot 3



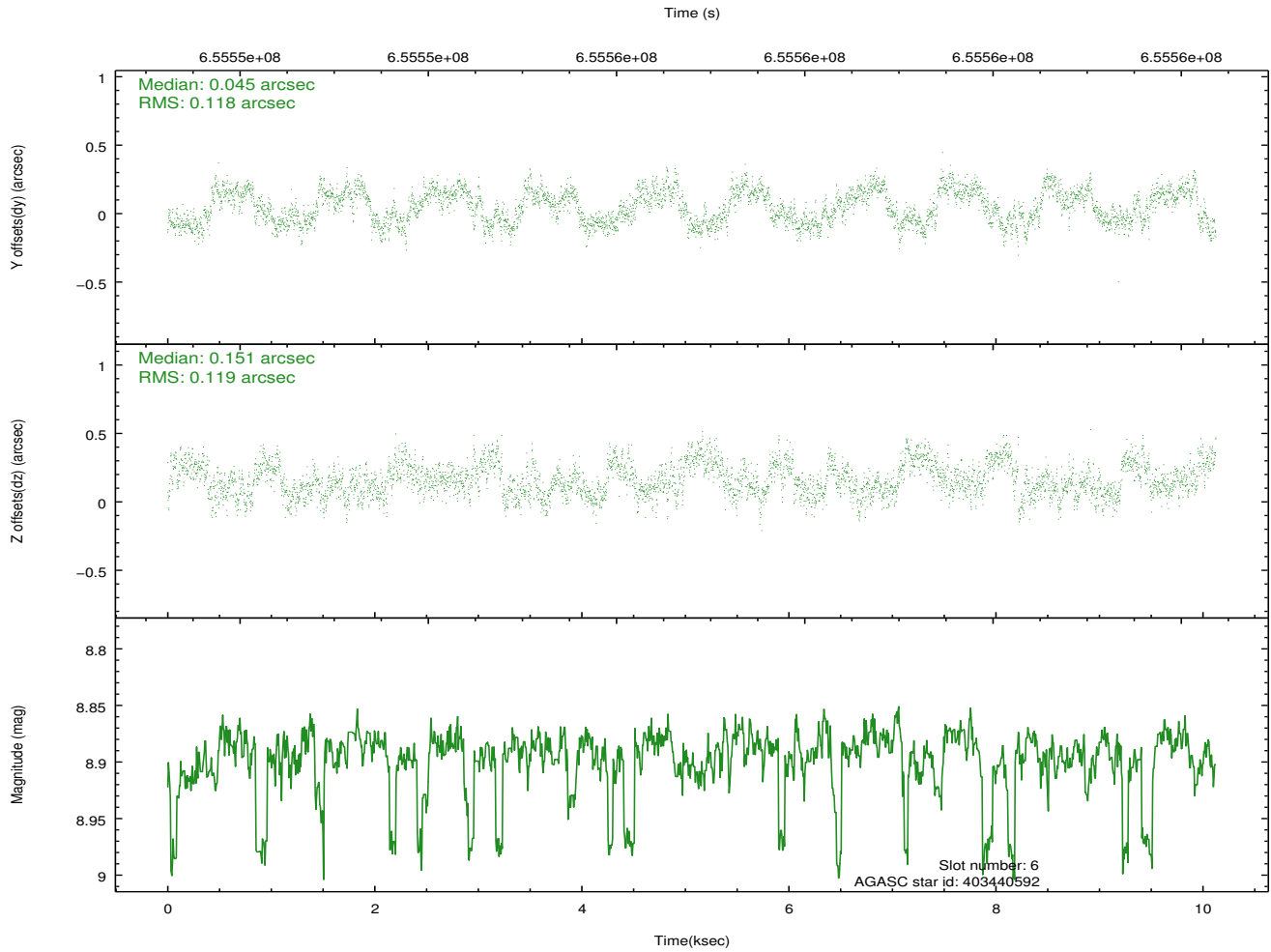
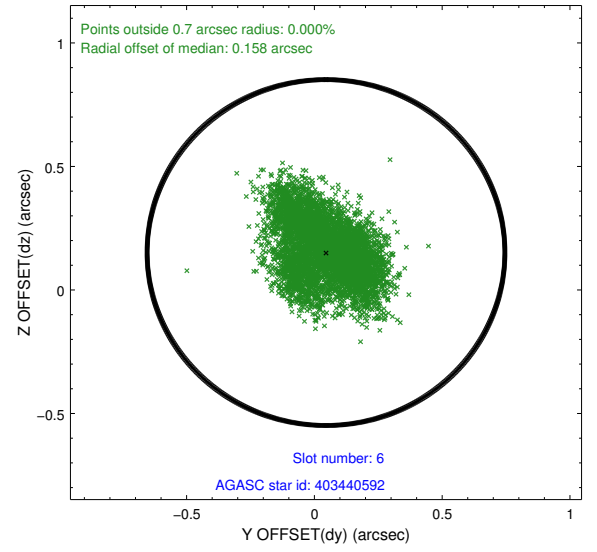
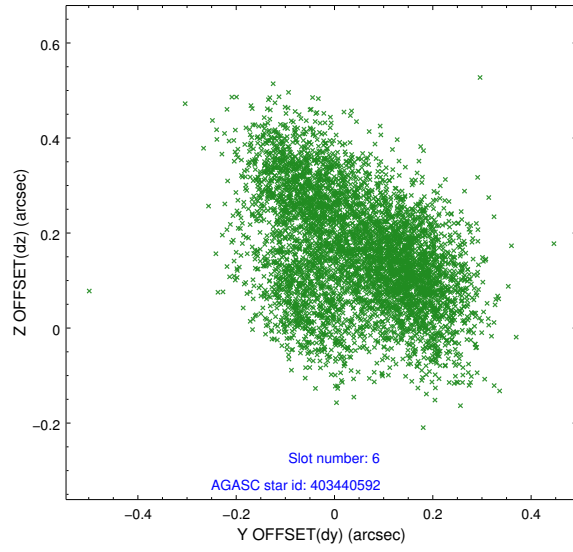
2.4.2 Slot 4



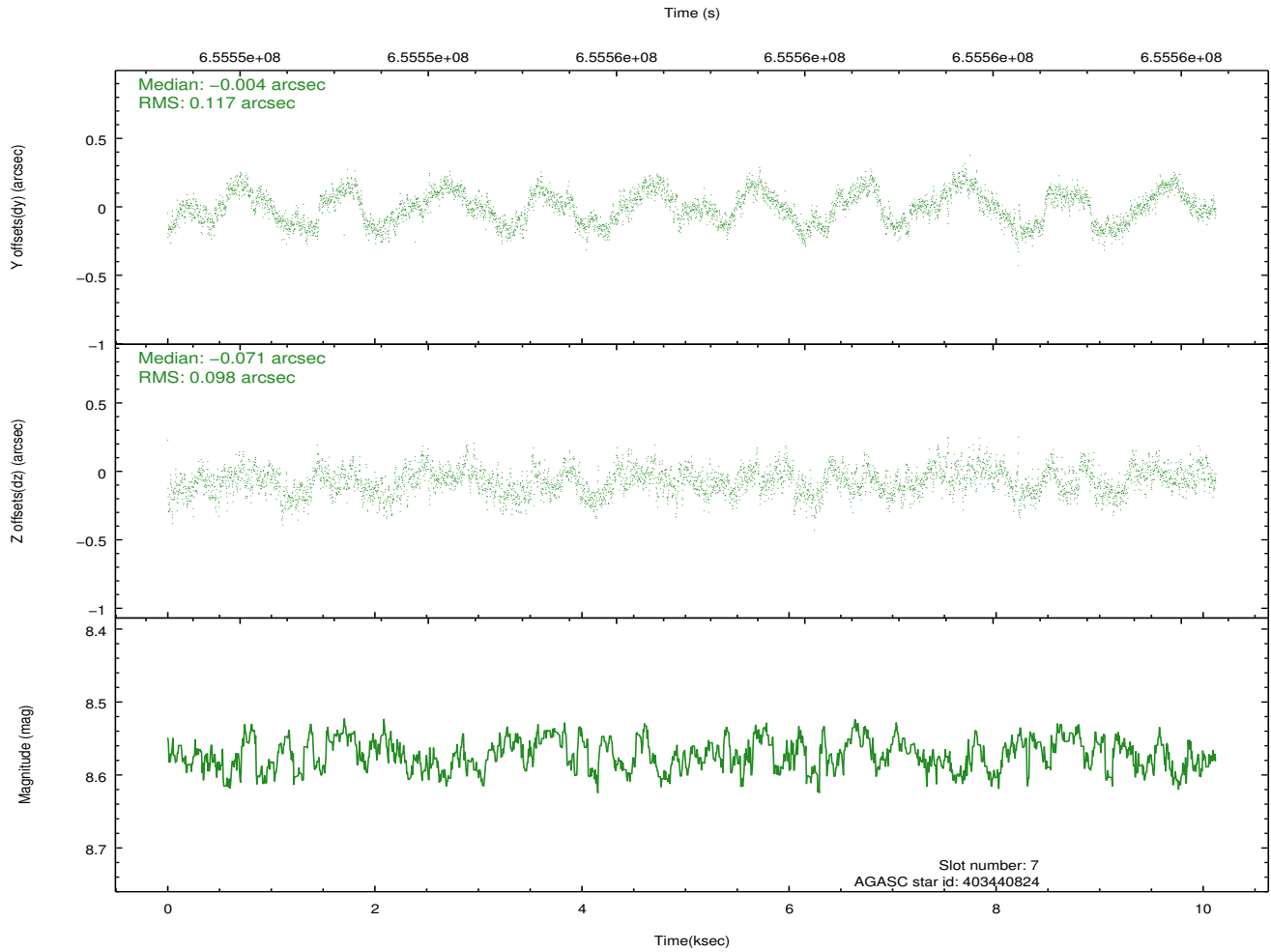
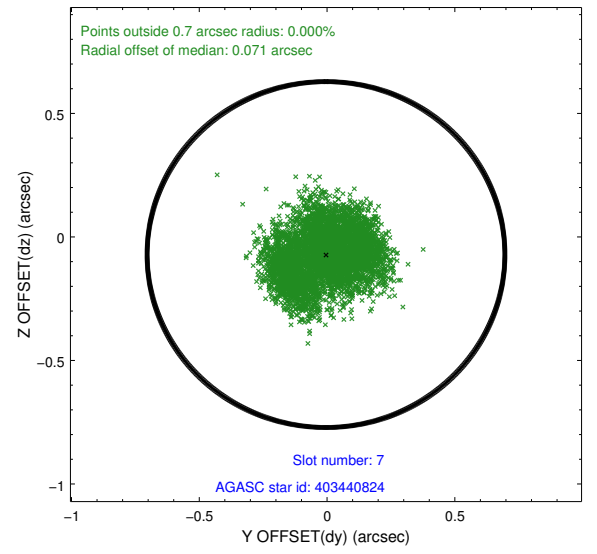
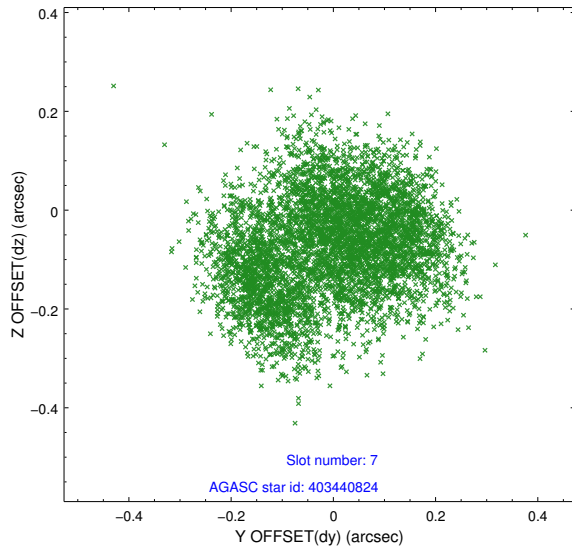
2.4.3 Slot 5



2.4.4 Slot 6

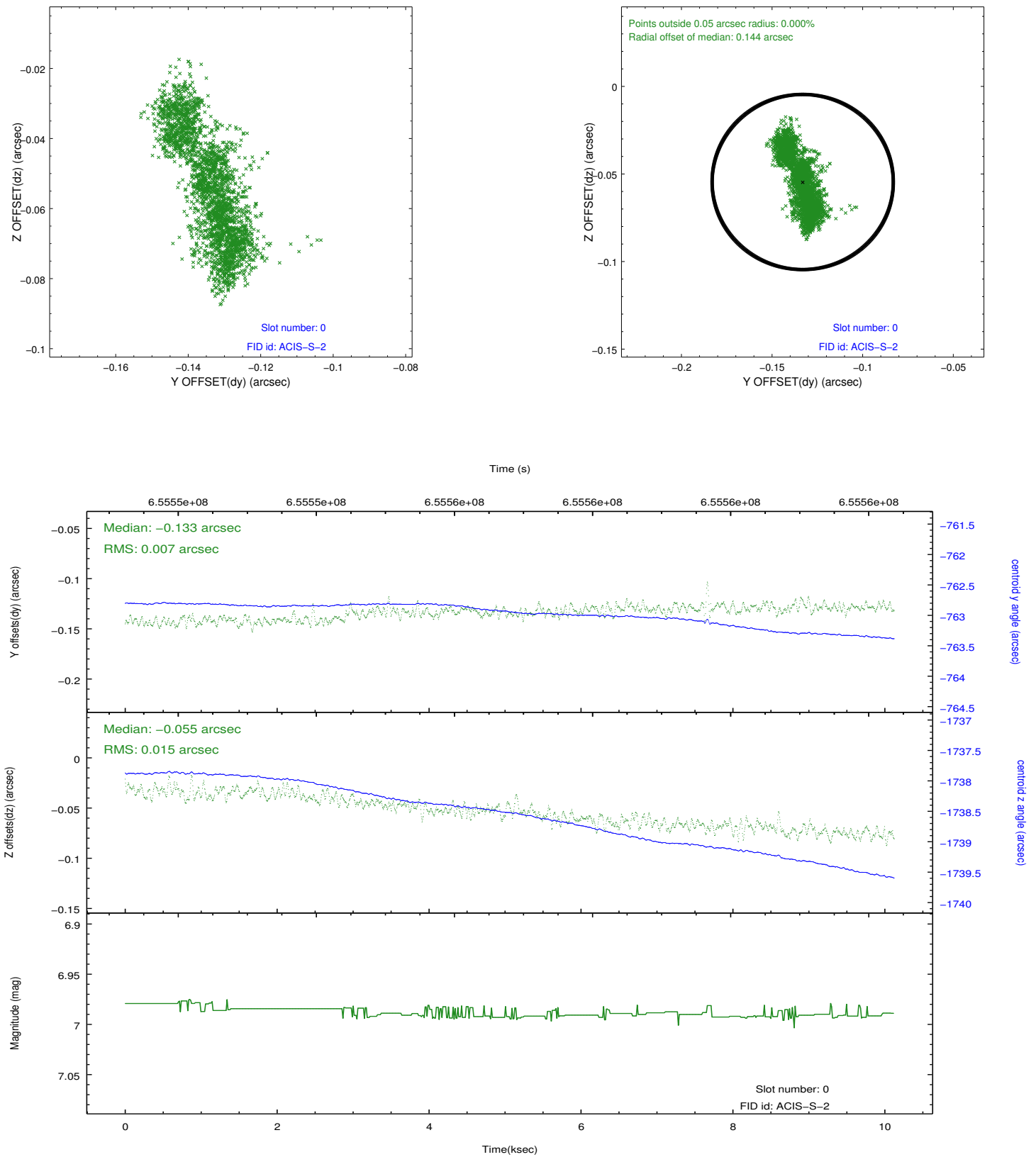


2.4.5 Slot 7

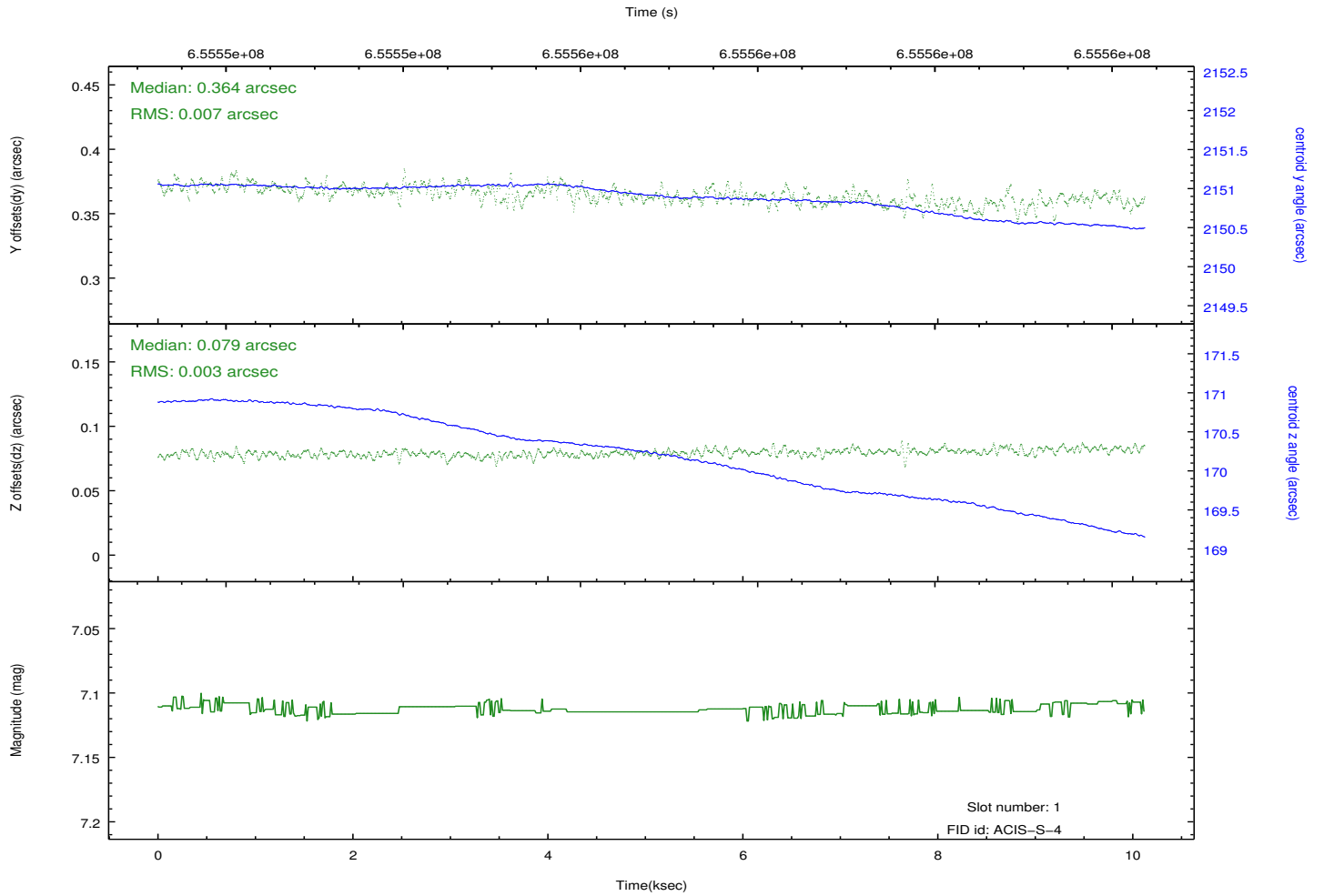
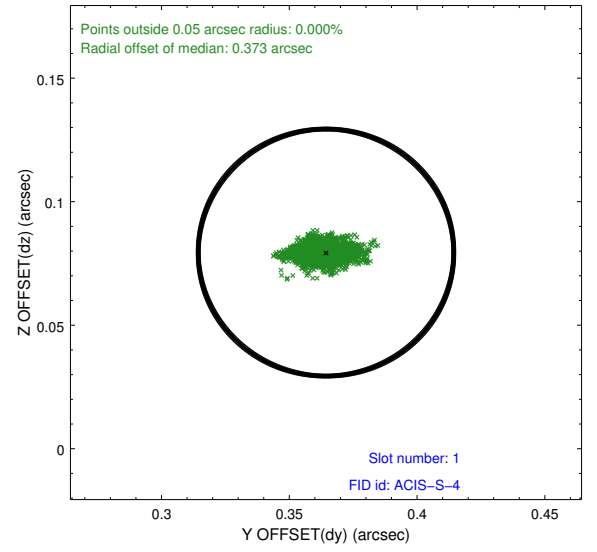
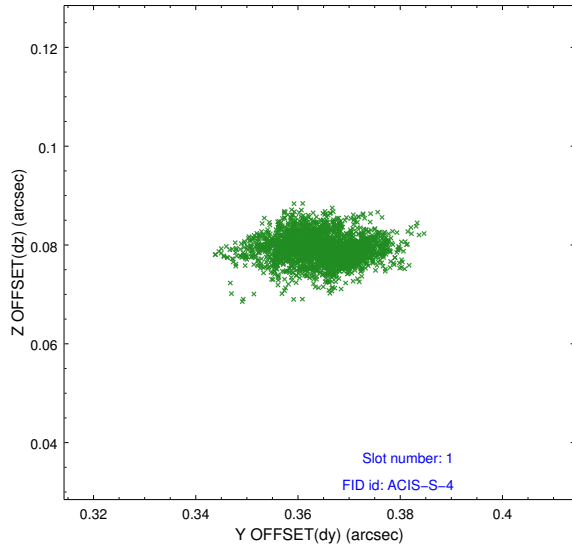


2.5 FID Slots

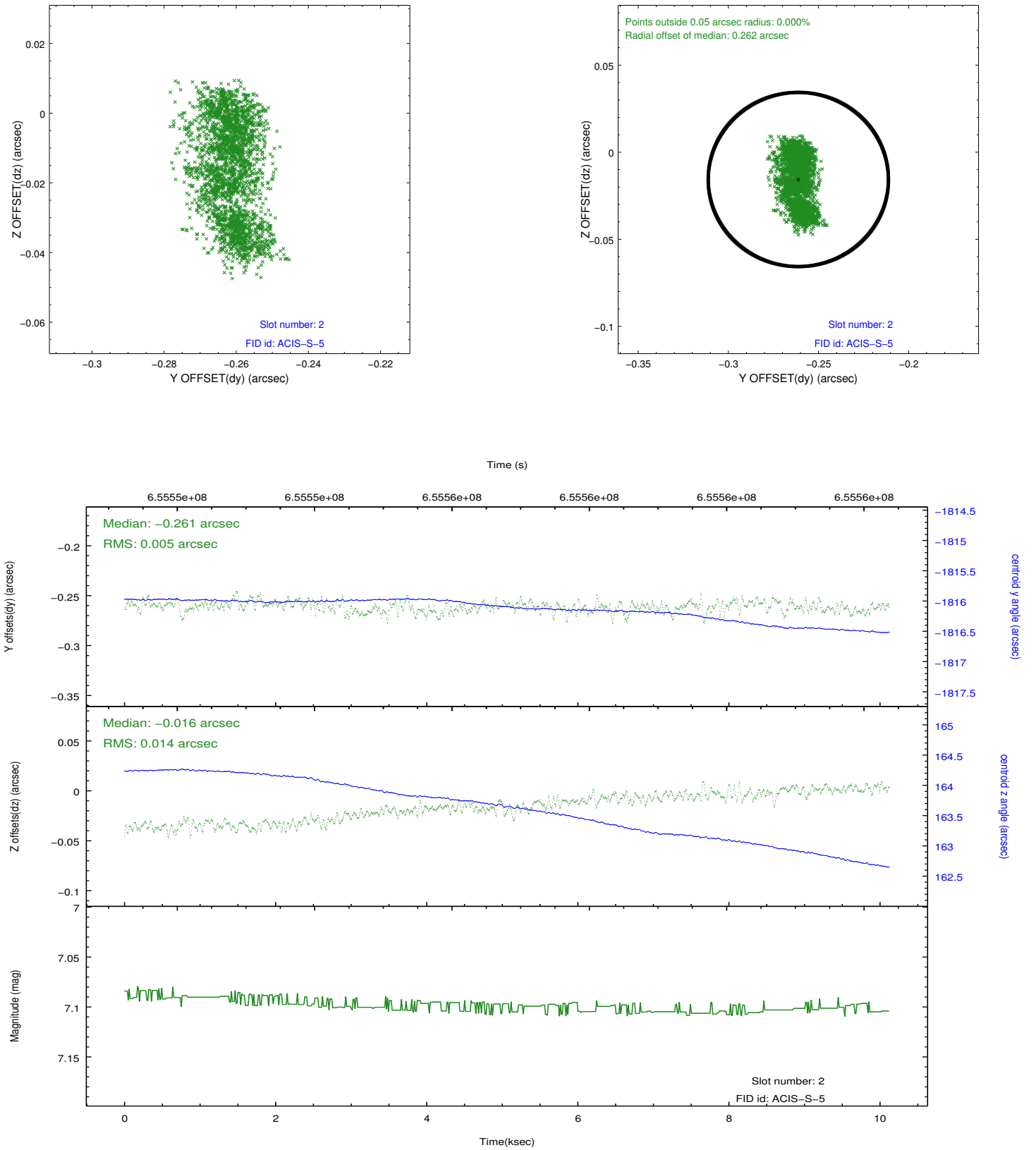
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2018.10.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.051895156384

A.2 Comments